

1. INTRODUCTION

This document is intended to deliver the guidelines and define the strategy that will be followed to carry out the certification of the quality of the Movies Shop API by performing tests for the basic functionalities of the application such as GET, PUT, POST, DELETE verifying the data entry and evaluating that the answers given do correspond to the test submitted.

1.1. OBJECTIVES

- Evaluate the quality of the API in each of its functions.
- Identify bugs that may occur and affect the operation of the application.
- Ensure quality criteria within the application so that its operation is correct.

1.2. TEST STRATEGY

The strategy consists of the following parts that we explain below:

Levels and Types of Test:

TYPES OF TEST	IMPLEMENTATION DESCRIPTION
Unit Test	Unit tests by developers who must ensure the functionality of each component of the application.
API Test	Functional tests on the application will be performed to ensure the quality of each transaction.
Integration Test	Tests will be carried out to validate its integration with the other microservices.

1.3. SCOPE

List of all modules, components or elements to be tested. If it is high level, the functional areas (modules or processes covered by the Testing) are listed, on the other hand, if it is of a detailed level, the programs, units or modules are listed.

MODULES	DESCRIPTION	STATE
Inventory	Movie Inventory	Programmed
Classification	Classification of movies	Programmed
Product	Different products.	Programmed

2. CHARACTERISTICS TO BE TESTED

Next we will make a list of the functionalities that will be tested for the system, all will be carried out at a functional level on the functionalities that the application has.

FUNCTIONALITY	DESCRIPTION	COVERAGE
Inventory - GET	Check inventory	HIGH
Inventory - POST	Add new inventory	HIGH
Inventory - PUT	Update inventory	HIGH
Inventory - DELETE	Delete inventory	HIGH
Classification - GET	Classification query	HIGH
Classification - POST	Add new Classification	HIGH
Classification - PUT	Update Classification	HIGH
Classification - DELETE	Remove Classification	HIGH
Product - GET	Check Movies	HIGH
Product - POST	Add new movie	HIGH
Product - PUT	Update movie	HIGH
Product - DELETE	Remove movie	HIGH

3. APPROVAL AND FAILURE CRITERIA

ID	APPROVAL	FAILURE	NOTES
one	The project will be approved with 100% of the tests executed, but with 90% acceptance. This means that 90% of the tests must be successful and error free. The remaining 10% may exist medium or low errors, but not serious.	In the event that the project does not meet the required level, the project is rejected completely in its certification stage.	

4. SUSPENSION AND RESUME CRITERIA

SUSPENSION CRITERIA	RESUME CRITERIA
Existence of defects that prevent the execution of more test cases.	Resolution of defects that prevent execution.
60% of failed test cases.	Delivery of new version of Software.
When the context or configuration of the environment does not allow to continue with the tests.	Necessary configurations of context or configuration of tools that allow to continue with the tests.

5. TASKS OF THE TESTS

HOMEWORK	DESCRIPTION	RESPONSABLE	ROLE
Automation of functionalities Inventory module.	Perform test cases for the inventory module where GET, PUT, DELETE, POST is performed.	Diego Zaraza	Automation
Classification module functionality automation.	Perform test cases for the classification module where GET, PUT, DELETE, POST is performed.	Diego Zaraza	Automation
Automation of Product module functionalities.	Perform test cases for the Product module where GET, PUT, DELETE, POST is performed.	Diego Zaraza	Automation

6. RISKS

Id Risk	001
Name	Delays in software development.
Description of Risk	The development team has a developmental delay due to a problem.
Probability of occurrence	Medium.
Impact / Priority	Critical Impact, High Priority
Tolerances	They are not tolerated.
Preventive actions	Monitoring and planning meetings with the entire technical team.
Corrective actions	

Id Risk	002
Name	System unavailability
Description of Risk	At times the system may not be available to perform the different tests.
Probability of occurrence	Medium.
Impact / Priority	Critical Impact, High Priority
Tolerances	There is no tolerance since it will stop project execution
Preventive actions	Monitoring and planning meetings with the entire technical team.
Corrective actions	Search for error by which it is presented and correction of it.